Hydrologic Model Manager

Short Name	CALSIM 2.0
Long Name	
Description	Simulation model of Federal Central Valley Project and California State Water Project. Uses Linear Programming (LP) to operate system during each monthly time step. Includes Water Resources Simulation Language (WRESL) which allows typical hydrologic constraints to be input easily, while WRESL puts them in a format usable by the LP.
Model Type	Ground water modeling, surface water modeling, planning studies.
Model Objectives	
Agency Office	MP-700 US Bureau of Reclamation Sacramento CA 95825
Tech Contact	Jim Cornwell Jcornwell@mp.usbr.gov 916.978.5077
Model Structure	
Interception	
Groundwater	
Snowmelt	
Precipitation	
Evapo-transpiration	
Infiltration	
Model Paramters	
Spatial Scale	Basin wide and state wide
Temporal Scale	monthly
Input Requirements	Inflows, mimimum flows, target reservoir _storages, etc. Data is either in HEC-DSS format or table lookup (ASCII)
Computer Requirements	Windows 95, 98, NT, Lahey Fortran 90, XA Solver (proprietary) HEC-DSS (public domain from Corps of Engineers).
Model Output	Each LP decision variable value is output to a HEC-DSS file.
Parameter Estimatn Model Calibrtn	
Model Testing Verification	Validation in progress.
Model Sensitivity	
Model Reliabiity	Validation in progress.
Model Application	
Documentation	Scarce documentation.
Other Comments	Strengths: Linear Programming allows constraints to be modified quickly. Weaknesses: Currently requires Lahey Fortran and XA solver (both proprietary). Skills required: Must learn the few basic commands of WRESL. HEC-DSS experience is useful.

	Training: Classroom training will be made available.
Date of Submission	5/8/2000 4:37:08 PM
Developer	
Technical Contact	
Contact Organization	